



## FEDERAL COMMUNICATIONS COMMISSION

### 47 CFR Part 64

[WC Docket No. 17-97; FCC 21-15; FRS 17458]

#### Call Authentication Trust Anchor

**AGENCY:** Federal Communications Commission.

**ACTION:** Proposed rule.

**SUMMARY:** In this document, the Federal Communications Commission (Commission) seeks comment on a proposal to create a limited role for the Commission to oversee certificate revocation decisions by the private STIR/SHAKEN governance system that would have the effect of placing voice service providers in noncompliance with our rules.

**DATES:** Comments are due on or before **[INSERT DATE 30 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER]**; reply Comments are due on or before **[INSERT DATE 60 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER]**. Written comments on the Paperwork Reduction Act proposed information collection requirements must be submitted by the public, Office of Management and Budget (OMB), and other interested parties on or before **[INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER]**.

**ADDRESSES:** Comments and reply comments may be filed using the Commission's Electronic Comment Filing System (ECFS). See Electronic Filing of Documents in Rulemaking Proceedings, 63 FR 24121 (1998). Interested parties may file comments or reply comments, identified by WC Docket No. 17-97 by any of the following methods:

- *Electronic Filers:* Comments may be filed electronically using the Internet by accessing the ECFS: <https://www.fcc.gov/ecfs/>
- *Paper Filers:* Parties who choose to file by paper must file an original and one copy of each filing.

Filings can be sent by commercial overnight courier, or by first-class or overnight U.S. Postal Service mail. All filings must be addressed to the Commission's Secretary, Office of the Secretary, Federal Communications Commission.

- Commercial overnight mail (other than U.S. Postal Service Express Mail and Priority Mail) must be sent to 9050 Junction Drive, Annapolis Junction, MD 20701.
- U.S. Postal Service first-class, Express, and Priority mail must be addressed to 45 L Street NE, Washington, DC 20554.
- Effective March 19, 2020, and until further notice, the Commission no longer accepts any hand or messenger delivered filings. This is a temporary measure taken to help protect the health and safety of individuals, and to mitigate the transmission of COVID-19. See FCC Announces Closure of FCC Headquarters Open Window and Change in Hand-Delivery Policy, Public Notice, DA 20-304 (March 19, 2020).  
<https://www.fcc.gov/document/fcc-closes-headquarters-open-window-and-changes-hand-delivery-policy>.

In addition to filing comments with the Secretary, a copy of any comments on the Paperwork Reduction Act proposed information collection requirements contained herein should be submitted to the Federal Communications Commission via email to [PRA@fcc.gov](mailto:PRA@fcc.gov) and comments should be sent to [www.reginfo.gov/public/do/PRAMain](http://www.reginfo.gov/public/do/PRAMain). Find this particular information collection by selecting "Currently Under Review - Open for Public Comments" or by using the search function. Your comment must be submitted into [www.reginfo.gov](http://www.reginfo.gov) per the above instructions for it to be considered. In addition to submitting in [www.reginfo.gov](http://www.reginfo.gov) also send a copy of your comment on the proposed information collection to Nicole Ongele, FCC, via email to [PRA@fcc.gov](mailto:PRA@fcc.gov) and to [Nicole.Ongele@fcc.gov](mailto:Nicole.Ongele@fcc.gov). Include in the comments the OMB control number.

**FOR FURTHER INFORMATION CONTACT:** For further information, please contact Connor Ferraro, Competition Policy Division, Wireline Competition Bureau, at [Connor.Ferraro@fcc.gov](mailto:Connor.Ferraro@fcc.gov) or at (202) 418-1322. For additional information concerning the Paperwork Reduction Act proposed information collection requirements contained in this document, send an email to [PRA@fcc.gov](mailto:PRA@fcc.gov) or contact Nicole Ongele at (202) 418-2991.

**SUPPLEMENTARY INFORMATION:** This is a summary of the Commission's Second Further Notice of Proposed Rulemaking in WC Docket No. 17-97, FCC 21-15, adopted on January 13, 2021, and released on January 14, 2021. The full text of this document is available for public inspection at the

following internet address: <https://docs.fcc.gov/public/attachments/FCC-21-15A1.pdf>. To request materials in accessible formats for people with disabilities (e.g. braille, large print, electronic files, audio format, etc.) or to request reasonable accommodations (e.g. accessible format documents, sign language interpreters, CART, etc.), send an email to [fcc504@fcc.gov](mailto:fcc504@fcc.gov) or call the Consumer & Governmental Affairs Bureau at (202) 418-0530 (voice) or (202) 418-0432 (TTY).

This document contains proposed information collection requirements. The Commission, as part of its continuing effort to reduce paperwork burdens, invites the general public and the Office of Management and Budget (OMB) to comment on the information collection requirements contained in this document, as required by the Paperwork Reduction Act of 1995, Public Law 104-13. Comments should address: (a) Whether the proposed collection of information is necessary for the proper performance of the functions of the Commission, including whether the information shall have practical utility; (b) the accuracy of the Commission's burden estimates; (c) ways to enhance the quality, utility, and clarity of the information collected; (d) ways to minimize the burden of the collection of information on the respondents, including the use of automated collection techniques or other forms of information technology; and (e) way to further reduce the information collection burden on small business concerns with fewer than 25 employees. In addition, pursuant to the Small Business Paperwork Relief Act of 2002, Public Law 107-198, *see* 44 U.S.C. 3506(c)(4), we seek specific comment on how we might further reduce the information collection burden for small business concerns with fewer than 25 employees. To view a copy of this information collection request (ICR) submitted to OMB: (1) Go to the Web page <http://www.reginfo.gov/public/do/PRAMain>, (2) look for the section of the Web page called "Currently Under Review," (3) click on the downward-pointing arrow in the "Select Agency" box below the "Currently Under Review" heading, (4) select "Federal Communications Commission" from the list of agencies presented in the "Select Agency" box, (5) click the "Submit" button to the right of the "Select Agency" box, (6) when the list of FCC ICRs currently under review appears, look for the Title of this ICR and then click on the ICR Reference Number. A copy of the FCC submission to OMB will be displayed.

**OMB Control Number:** 3060-XXXX.

**Title:** Secure Telephone Identity Governance Authority Token Revocation Review Process.

**Form Number:** N/A.

**Type of Review:** New information collection.

**Respondents:** Business or other for-profit entities.

**Number of Respondents and Responses:** 50 respondents; 50 responses.

**Estimated Time per Response:** 24 hours.

**Frequency of Response:** On occasion reporting requirement.

**Obligation to Respond:** Mandatory and required to obtain or retain benefits. The statutory authority for these collections are contained in 47 U.S.C. 227b, 251(e), and 227(e) of the Communications Act of 1934.

**Total Annual Burden:** 1,200 hours.

**Total Annual Cost:** No Cost.

**Privacy Act Impact Assessment:** No impact(s).

**Nature and Extent of Confidentiality:** The Commission will consider the potential confidentiality of any information submitted, particularly where public release of such information could raise security concerns (e.g., granular location information). Respondents may request materials or information submitted to the Commission or to the Administrator be withheld from public inspection under 47 CFR 0.459 of the Commission's rules.

## **Synopsis**

### **I. INTRODUCTION**

1. As part of the Commission's multi-pronged approach to combat illegal robocalls, the Commission has promoted the implementation of STIR/SHAKEN, a caller ID authentication framework. STIR/SHAKEN is a set of industry-created technological standards that help to prevent illegally "spoofed" calls. Spoofing is a practice that involves the falsifying of caller ID information and it is particularly nefarious when bad actors spoof calls to trick unsuspecting Americans into thinking that calls they make are trustworthy because the caller ID information appears as if the call came from a neighbor or a familiar or reputable source.

2. In March, acting pursuant to the Pallone-Thune Telephone Robocall Abuse Criminal Enforcement and Deterrence Act (TRACED Act), the Commission required voice service providers to implement the STIR/SHAKEN call authentication technology in the Internet protocol (IP) portions of their phone networks by June 30, 2021. The Commission completed implementation of the TRACED Act with respect to STIR/SHAKEN in September and required intermediate providers to facilitate caller ID authentication.

3. Today, we propose a limited role for the Commission to oversee certificate revocation decisions by the private STIR/SHAKEN Governance Authority that would have the effect of placing providers in noncompliance with our rules. We anticipate that exercising an oversight role would provide necessary due process to parties that may be rendered noncompliant with our rules by the actions of a private entity without unduly interfering with the well-functioning multi-stakeholder private STIR/SHAKEN governance processes.

## **II. BACKGROUND**

4. To address the issue of illegal caller ID spoofing, technologists from the Internet Engineering Task Force (IETF) and the Alliance for Telecommunications Industry Solutions (ATIS) developed standards to allow for the authentication and verification of caller ID information for calls carried over IP networks. The result of their efforts is the STIR/SHAKEN call authentication framework, which allows for the caller ID information to securely travel with the call itself throughout the entire length of the call path. A key component to the STIR/SHAKEN framework is the transmission of a digital “certificate” along with the call. This certificate essentially states that the voice service provider authenticating the caller ID information is the voice service provider it claims to be, it is authorized to authenticate this information and, thus, the voice service provider’s claims about the caller ID information can be trusted. To maintain trust and accountability in the voice service providers that vouch for the caller ID information, a neutral governance system issues the certificates.

5. The STIR/SHAKEN governance system is comprised of several different entities fulfilling specialized roles. The Governance Authority, managed by a board consisting of representatives from across the voice service industry, defines the policies and procedures for which entities can issue or acquire certificates. The Policy Administrator applies the rules set by the Governance Authority, confirms that certification authorities are authorized to issue certificates, and confirms that voice service providers are authorized to request and receive certificates. Certification Authorities, of which there are several, issue the certificates used to authenticate and verify calls. And finally, the voice service providers themselves, which, when acting as call initiators, select an approved certification authority from which to request a certificate, and when acting as call recipients, check with certification authorities to ensure that the certificates they receive were issued by the correct certification authority.

6. To receive a digital certificate, a voice service provider must first apply to the Policy Administrator for a Service Provider Code (SPC) token. To obtain an SPC token, the Governance Authority policy requires that a voice service provider must (1) have a current FCC Form 499A on file with the Commission, (2) have been assigned an Operating Company Number (OCN), and (3) have direct access to telephone numbers from the North American Numbering Plan Administrator (NANPA) and the National Pooling Administrator. The SPC token then permits the voice service provider to obtain the digital certificates it will use to authenticate calls from one of the approved Certification Authorities. The SPC token therefore is a prerequisite for a voice service provider to participate in the STIR/SHAKEN ecosystem, and management of token access is the mechanism by which the Policy Administrator and Governance Authority protect the system from abuse and misuse. On November 18, 2020, the Governance Authority announced an update to its Service Provider Code (SPC) Token Access Policy. Under the revised policy, an entity will no longer need direct access to telephone numbers; in place of that requirement, an entity will need to have certified with the Commission that they have implemented STIR/SHAKEN or comply with the Robocall Mitigation Program

requirements and are listed in the Commission database. The Governance Authority provided that the revised policy will be effective upon the Commission's Robocall Mitigation Certification filing deadline and that, until then, the current SPC Token Access Policy remains in effect.

7. The Policy Administrator grants SPC tokens to eligible voice service providers conditioned on the execution of a signed agreement with each voice service provider, stating that the voice service provider will follow the appropriate standards. This agreement establishes that if the Policy Administrator deems the voice service provider to be in breach, it has the authority to suspend or revoke a voice service provider's SPC token. The Governance Authority possesses sole authority to direct the Policy Administrator to revoke an SPC token, except in limited circumstances where the Policy Administrator may perform such actions on its own initiative, reviewable by the Governance Authority. In the Service Provider Token Revocation Policy, the Governance Authority lists the reasons for which an SPC token may be revoked: (1) in the situation of compromised credentials, i.e., a voice service provider's private key has been lost, stolen, or compromised, or a certification authority has been compromised; (2) the voice service provider exits the ecosystem; (3) the voice service provider failed to adhere to the policy and technical requirements of the system, including the SPC Token Access Policy, funding requirements, or technical specifications regarding the use of STIR/SHAKEN; or (4) when directed by a court, the Commission, or another body with relevant legal authority due to a violation of Federal law related to caller ID authentication. When a service provider's credentials are compromised or it exits the ecosystem (the former two scenarios), the Policy Administrator may revoke a service provider's SPC token without prior direction from the Governance Authority because in either circumstance there will be no question as to its appropriateness. However, when a service provider fails to adhere to a policy or technical requirement, or at the direction of a court, the Commission, or another relevant legal authority (the latter two scenarios), the Governance Authority conducts the revocation process according to the process outlined in the Service Provider Token Revocation Policy.

8. Before the Governance Authority revokes an SPC token due to a voice service provider's violation of a policy, technical, or legal requirement, the Governance Authority follows a multi-step process described by the Service Provider Token Revocation Policy, which allows the voice service provider to respond to the alleged infraction and appeal any adverse decision according to the Governance Authority's operating procedures. According to the Service Provider Token Revocation Policy, a voice service provider, the Policy Administrator, a Certification Authority, or a regulatory agency may report a potential issue to the Governance Authority via a complaint. Next, the Governance Authority will conduct a formal review of the complaint and gather additional information. The Governance Authority Board then votes on whether to revoke the token, requiring a two thirds vote of the Governance Authority Board to approve the revocation. The affected service provider may appeal an adverse decision by the Governance Authority through a formal appeal process outlined in the Governance Authority's Operating Procedures. In addition to the Governance Authority reviewing the complaint and issuing a written response, the formal appeal process includes the potential for a hearing before an independent panel of three individuals. Following a hearing, the appeals panel issues a written decision stating its findings of fact, conclusions, and the reasoning for its conclusions. If a voice service provider loses the appeal, or chooses not to appeal, it may seek reinstatement to the STIR/SHAKEN ecosystem if the Governance Authority approves of its plan of action to remedy the issue or issues underlying the token revocation. The Commission is aware of the timing discrepancy between the appeal process as described in the Reinstatement Policy and the STI-GA Operating Procedures, and we encourage the STI-GA to further clarify the timing for each.

9. In the *First Caller ID Authentication Report and Order and Further Notice*, the Commission declined to impose new regulations on the STIR/SHAKEN governance structure. The Commission reasoned, in part, that the Commission did yet not know the nature and scope of the type of problems that may arise that would require Commission intervention.

### III. DISCUSSION

10. Although we continue to refrain from unduly intruding upon the private STIR/SHAKEN governance structure, in this Further Notice we preliminarily conclude that it is important for the Commission to have a role in reviewing the Governance Authority's decisions to revoke a voice service provider's SPC token because such decisions will have the effect of placing the voice service provider out of compliance with our rules. Specifically, we propose to establish an oversight role for the Commission over the Governance Authority's token revocation decisions similar to the one we hold in the context of decisions by the Universal Service Administrative Company (USAC). Under our universal service appeals rules, after first seeking internal review by USAC, an aggrieved party may seek review of USAC's decision by the Commission. Our proposed rules would follow this same format and allow review by the Wireline Competition Bureau, except for requests for review that raise "novel questions of fact, law or policy," which would be considered by the full Commission. We seek comment on this proposal.

11. In more detail, we propose to adopt similar procedural and timing requirements as in our universal service rules. We propose that any voice service provider that has its SPC token revoked by the Governance Authority, must first, before appealing that decision to the Commission, exhaust all review of this decision by the Governance Authority, including completing the formal appeal process outlined in the Governance Authority's Operating Procedures and described above. We believe that the Governance Authority's robust review procedures will enable the dispute to fully develop before potentially reaching the Commission, thereby making it easier for the Commission to identify the relevant facts and issues. Do commenters agree? Are there any reasons we should allow for appeals of interim or other relief to the Commission before the full Governance Authority process has been completed? If so, how should such a procedure work? Are there any entities other than the affected voice service providers that we should allow to take advantage of such appeal or other procedures?

12. We propose to give a voice service provider 60 days after the Governance Authority upholds its adverse decision to request review by the Commission and to apply the time periods for filing oppositions and replies set forth in § 1.45 of our rules. Do commenters agree that we should adopt these filing deadlines? Are there reasons relevant to the SPC token revocation context to allow service providers more or less time than parties are provided under those rules? Should we require or allow the Governance Authority to file a statement in opposition to the request for review?

13. We further propose to require requests for review to be filed within the Commission's Electronic Comment Filing System, in a dedicated inbox available to the public and be captioned with the name of the party. Accordingly, we propose to direct the Wireline Competition Bureau to establish a new docket for these appeals. Next, we propose that the request for review, at a minimum, contain: (1) a statement setting forth the voice service provider's asserted basis for appealing the Governance Authority's decision to revoke the SPC token; (2) a full statement of relevant, material facts with supporting affidavits and documentation, including any background information the voice service provider deems useful to the Commission's review; and (3) the question presented for review, with reference, where appropriate, to any underlying Commission rule or Governance Authority policy. These three criteria closely track our universal service rules. In contrast to our universal service rules, however, we propose not to require that requests for review include a statement of the relief sought because we assume that the relief sought will always be the reversal of the Governance Authority's revocation decision. We seek comment on these proposed filing requirements and on what other information we should require a voice service provider include in a request for review. And we propose to require that a copy of the request for review be sent to the Governance Authority via [sti-ga@atis.org](mailto:sti-ga@atis.org) or another method specified in the Governance Authority's Operating Procedures. We further propose to require the Governance Authority, upon receipt of a copy of a voice service provider's request for review, to send to the Bureau the

full record of the SPC token revocation appeal, including the written decision. We seek comment on these proposed processes. What specific information should the Commission require the Governance Authority to provide? How should we address requests for confidentiality, and should we treat any filings as presumptively confidential by default? Are there any other ways in which we should depart from our established process for universal service appeals? We believe that the reporting costs imposed upon the Governance Authority by the process we propose would be minimal, and we seek comment on this view.

14. We further propose that throughout the period of review, until the Commission or Bureau issue an initial decision, a voice service provider will not be judged to be in violation of our § 64.6301 rules or the TRACED Act. We seek comment on these proposals. Is this the appropriate status for a voice service provider to maintain throughout the review process? Should we allow the voice service provider to maintain possession and use of its SPC token until the Bureau or Commission has reached a decision? Are there are other relevant procedural requirements that we should adopt? We also propose that should the Bureau or the Commission uphold or otherwise decide not to overturn the Governance Authority's decision, a voice service provider will not maintain the right to use its SPC token by filing a petition for reconsideration or application for review, in the absence of a stay of the action of the Bureau or the Commission. We seek comment on this proposal. Given the novelty and potential complexity of revocation appeals, at this time we do not propose to impose a time limit on Bureau or Commission review, and we seek comment on this preliminary view.

15. We propose that the standard of review by either the Bureau or the Commission be *de novo*. Do commenters agree? We also seek comment on the rules or other sources of law the Bureau or the Commission should apply when reviewing a revocation. Should we incorporate by reference the policies established by the Governance Authority regarding token revocation and determine whether the Governance Authority applied those policies correctly to the facts of a given appeal? Alternatively, do commenters believe we should limit our review

merely to specific types of procedural or obvious error in the Governance Authority's process?

16. To establish this process, we propose relying on the authority Congress provided to the Commission under section 4(b)(1) of the TRACED Act to require the implementation of the STIR/SHAKEN framework. We believe that the proposed appeal process would be consistent with this authority with minimal cost to the industry. We seek comment on this proposal, and whether we have independent authority under section 251(e) of the Communications Act or under the Truth in Caller ID Act or other statutory provisions.

#### **IV. PROCEDURAL MATTERS**

17. *Ex Parte Rules.* This proceeding shall be treated as a "permit-but-disclose" proceeding in accordance with the Commission's *ex parte* rules. Persons making *ex parte* presentations must file a copy of any written presentation or a memorandum summarizing any oral presentation within two business days after the presentation (unless a different deadline applicable to the Sunshine period applies). Persons making oral *ex parte* presentations are reminded that memoranda summarizing the presentation must (1) list all persons attending or otherwise participating in the meeting at which the *ex parte* presentation was made, and (2) summarize all data presented and arguments made during the presentation. If the presentation consisted in whole or in part of the presentation of data or arguments already reflected in the presenter's written comments, memoranda or other filings in the proceeding, the presenter may provide citations to such data or arguments in his or her prior comments, memoranda, or other filings (specifying the relevant page or paragraph numbers where such data or arguments can be found) in lieu of summarizing them in the memorandum. Documents shown or given to Commission staff during *ex parte* meetings are deemed to be written *ex parte* presentations and must be filed consistent with Rule 1.1206(b). In proceedings governed by Rule 1.49(f) or for which the Commission has made available a method of electronic filing, written *ex parte* presentations and memoranda summarizing oral *ex parte* presentations, and all attachments

thereto, must be filed through the electronic comment filing system available for that proceeding, and must be filed in their native format (*e.g.*, .doc, .xml, .ppt, searchable .pdf). Participants in this proceeding should familiarize themselves with the Commission's *ex parte* rules.

18. *Initial Regulatory Flexibility Analysis.* As required by the Regulatory Flexibility Act of 1980, as amended (RFA), the Commission has prepared this Initial Regulatory Flexibility Analysis (IRFA) of the possible significant economic impact on small entities by the policies and rules proposed in this *Second Further Notice of Proposed Rulemaking (Second Further Notice)*. The Commission requests written public comments on this IRFA. Comments must be identified as responses to the IRFA and must be filed by the deadlines for comments provided on the first page of the *Second Further Notice*. The Commission will send a copy of the *Second Further Notice*, including this IRFA, to the Chief Counsel for Advocacy of the Small Business Administration (SBA). In addition, the *Second Further Notice* and IRFA (or summaries thereof) will be published in the Federal Register.

**A. Need for, and Objectives of, the Proposed Rules**

19. The *Second Further Notice* proposes measures as part of the Commission's efforts to combat illegal spoofed robocalls. Specifically, the *Second Further Notice* proposes to establish an oversight role for the Commission of the STIR/SHAKEN governance system's token revocation process. Under the proposal, any voice service provider that has its Service Provider Code token revoked may seek review of this decision by the Commission through set procedures. The proposal in the *Second Further Notice* will help promote effective caller ID authentication through STIR/SHAKEN.

**B. Legal Basis**

20. The *Second Further Notice* proposes to find authority for these proposed rules under TRACED Act. Section 4(b)(1) of the TRACED Act provided authority to require the implementation of the STIR/SHAKEN framework. We preliminarily believe that to effectively

direct the implementation of STIR/SHAKEN consistent with the TRACED Act, the Commission must have a role in decisions to revoke Service Provider Code tokens because the result of such a decision could place the service provider in noncompliance with our rules. The *Second Further Notice* seeks comment on whether we have independent authority under section 251(e) of the Communications Act of 1934, as amended (the Act), under the Truth in Caller ID Act, or any other sources of authority.

### **C. Description and Estimate of the Number of Small Entities to Which the Proposed Rules Will Apply**

21. The RFA directs agencies to provide a description of and, where feasible, an estimate of the number of small entities that may be affected by the proposed rules and by the rule revisions on which the Notice seeks comment, if adopted. The RFA generally defines the term “small entity” as having the same meaning as the terms “small business,” “small organization,” and “small governmental jurisdiction.” In addition, the term “small business” has the same meaning as the term “small-business concern” under the Small Business Act. A “small-business concern” is one which: (1) is independently owned and operated; (2) is not dominant in its field of operation; and (3) satisfies any additional criteria established by the SBA.

#### **1. Wireline Carriers**

22. *Wired Telecommunications Carriers.* The U.S. Census Bureau defines this industry as “establishments primarily engaged in operating and/or providing access to transmission facilities and infrastructure that they own and/or lease for the transmission of voice, data, text, sound, and video using wired communications networks. Transmission facilities may be based on a single technology or a combination of technologies. Establishments in this industry use the wired telecommunications network facilities that they operate to provide a variety of services, such as wired telephony services, including VoIP services, wired (cable) audio and video programming distribution, and wired broadband internet services. By exception,

establishments providing satellite television distribution services using facilities and infrastructure that they operate are included in this industry.” The SBA has developed a small business size standard for Wired Telecommunications Carriers, which consists of all such companies having 1,500 or fewer employees. U.S. Census Bureau data for 2012 show that there were 3,117 firms that operated that year. Of this total, 3,083 operated with fewer than 1,000 employees. Thus, under this size standard, the majority of firms in this industry can be considered small.

23. *Local Exchange Carriers (LECs)*. Neither the Commission nor the SBA has developed a size standard for small businesses specifically applicable to local exchange services. The closest applicable NAICS Code category is Wired Telecommunications Carriers. Under the applicable SBA size standard, such a business is small if it has 1,500 or fewer employees. U.S. Census Bureau data for 2012 show that there were 3,117 firms that operated for the entire year. Of that total, 3,083 operated with fewer than 1,000 employees. Thus under this category and the associated size standard, the Commission estimates that the majority of local exchange carriers are small entities.

24. *Incumbent LECs*. Neither the Commission nor the SBA has developed a small business size standard specifically for incumbent local exchange services. The closest applicable NAICS Code category is Wired Telecommunications Carriers. Under the applicable SBA size standard, such a business is small if it has 1,500 or fewer employees. U.S. Census Bureau data for 2012 indicate that 3,117 firms operated the entire year. Of this total, 3,083 operated with fewer than 1,000 employees. Consequently, the Commission estimates that most providers of incumbent local exchange service are small businesses that may be affected by our actions. According to Commission data, one thousand three hundred and seven (1,307) Incumbent Local Exchange Carriers reported that they were incumbent local exchange service providers. Of this total, an estimated 1,006 have 1,500 or fewer employees. Thus, using the SBA’s size standard the majority of incumbent LECs can be considered small entities.

25. *Competitive Local Exchange Carriers (Competitive LECs), Competitive Access Providers (CAPs), Shared-Tenant Service Providers, and Other Local Service Providers.* Neither the Commission nor the SBA has developed a small business size standard specifically for these service providers. The appropriate NAICS Code category is Wired Telecommunications Carriers and under that size standard, such a business is small if it has 1,500 or fewer employees. U.S. Census Bureau data for 2012 indicate that 3,117 firms operated during that year. Of that number, 3,083 operated with fewer than 1,000 employees. Based on these data, the Commission concludes that the majority of Competitive LECs, CAPs, Shared-Tenant Service Providers, and Other Local Service Providers, are small entities. According to Commission data, 1,442 carriers reported that they were engaged in the provision of either competitive local exchange services or competitive access provider services. Of these 1,442 carriers, an estimated 1,256 have 1,500 or fewer employees. In addition, 17 carriers have reported that they are Shared-Tenant Service Providers, and all 17 are estimated to have 1,500 or fewer employees. Also, 72 carriers have reported that they are Other Local Service Providers. Of this total, 70 have 1,500 or fewer employees. Consequently, based on internally researched FCC data, the Commission estimates that most providers of competitive local exchange service, competitive access providers, Shared-Tenant Service Providers, and Other Local Service Providers are small entities.

26. We have included small incumbent LECs in this present RFA analysis. As noted above, a “small business” under the RFA is one that, *inter alia*, meets the pertinent small-business size standard (e.g., a telephone communications business having 1,500 or fewer employees) and “is not dominant in its field of operation.” The SBA’s Office of Advocacy contends that, for RFA purposes, small incumbent LECs are not dominant in their field of operation because any such dominance is not “national” in scope. We have therefore included small incumbent LECs in this RFA analysis, although we emphasize that this RFA action has no effect on Commission analyses and determinations in other, non-RFA contexts.

27. *Interexchange Carriers (IXCs).* Neither the Commission nor the SBA has

developed a small business size standard specifically for Interexchange Carriers. The closest applicable NAICS Code category is Wired Telecommunications Carriers. The applicable size standard under SBA rules is that such a business is small if it has 1,500 or fewer employees. U.S. Census Bureau data for 2012 indicate that 3,117 firms operated for the entire year. Of that number, 3,083 operated with fewer than 1,000 employees. According to internally developed Commission data, 359 companies reported that their primary telecommunications service activity was the provision of interexchange services. Of this total, an estimated 317 have 1,500 or fewer employees. Consequently, the Commission estimates that the majority of interexchange service providers are small entities.

28. *Cable System Operators (Telecom Act Standard).* The Communications Act of 1934, as amended, also contains a size standard for small cable system operators, which is “a cable operator that, directly or through an affiliate, serves in the aggregate fewer than one percent of all subscribers in the United States and is not affiliated with any entity or entities whose gross annual revenues in the aggregate exceed \$250,000,000.” As of 2018, there were approximately 50,504,624 cable video subscribers in the United States. Accordingly, an operator serving fewer than 505,046 subscribers shall be deemed a small operator if its annual revenues, when combined with the total annual revenues of all its affiliates, do not exceed \$250 million in the aggregate. We note that the Commission neither requests nor collects information on whether cable system operators are affiliated with entities whose gross annual revenues exceed \$250 million. Therefore we are unable at this time to estimate with greater precision the number of cable system operators that would qualify as small cable operators under *the* definition in the Communications Act.

## **2. Wireless Carriers**

29. *Wireless Telecommunications Carriers (except Satellite).* This industry comprises establishments engaged in operating and maintaining switching and transmission

facilities to provide communications via the airwaves. Establishments in this industry have spectrum licenses and provide services using that spectrum, such as cellular services, paging services, wireless internet access, and wireless video services. The appropriate size standard under SBA rules is that such a business is small if it has 1,500 or fewer employees. For this industry, U.S. Census Bureau data for 2012 show that there were 967 firms that operated for the entire year. Of this total, 955 firms employed fewer than 1,000 employees and 12 firms employed 1000 employees or more. Thus under this category and the associated size standard, the Commission estimates that the majority of wireless telecommunications carriers (except satellite) are small entities.

30. The Commission’s own data—available in its Universal Licensing System—indicate that, as of August 31, 2018 there are 265 Cellular licensees that will be affected by our actions. The Commission does not know how many of these licensees are small, as the Commission does not collect that information for these types of entities. Similarly, according to internally developed Commission data, 413 carriers reported that they were engaged in the provision of wireless telephony, including cellular service, Personal Communications Service (PCS), and Specialized Mobile Radio (SMR) Telephony services. Of this total, an estimated 261 have 1,500 or fewer employees, and 152 have more than 1,500 employees. Thus, using available data, we estimate that the majority of wireless firms can be considered small.

31. *Satellite Telecommunications.* This category comprises firms “primarily engaged in providing telecommunications services to other establishments in the telecommunications and broadcasting industries by forwarding and receiving communications signals via a system of satellites or reselling satellite telecommunications.” Satellite telecommunications service providers include satellite and earth station operators. The category has a small business size standard of \$35 million or less in average annual receipts, under SBA rules. For this category, U.S. Census Bureau data for 2012 show that there were a total of 333 firms that operated for the entire year. Of this total, 299 firms had annual receipts of less than \$25 million. Consequently,

we estimate that the majority of satellite telecommunications providers are small entities.

### **3. Resellers**

32. *Local Resellers.* The SBA has not developed a small business size standard specifically for Local Resellers. The SBA category of Telecommunications Resellers is the closest NAICS code category for local resellers. The Telecommunications Resellers industry comprises establishments engaged in purchasing access and network capacity from owners and operators of telecommunications networks and reselling wired and wireless telecommunications services (except satellite) to businesses and households. Establishments in this industry resell telecommunications; they do not operate transmission facilities and infrastructure. Mobile virtual network operators (MVNOs) are included in this industry. Under the SBA's size standard, such a business is small if it has 1,500 or fewer employees. U.S. Census Bureau data from 2012 show that 1,341 firms provided resale services during that year. Of that number, all operated with fewer than 1,000 employees. Thus, under this category and the associated small business size standard, the majority of these resellers can be considered small entities.

According to Commission data, 213 carriers have reported that they are engaged in the provision of local resale services. Of these, an estimated 211 have 1,500 or fewer employees and two have more than 1,500 employees. Consequently, the Commission estimates that the majority of local resellers are small entities.

33. *Toll Resellers.* The Commission has not developed a definition for Toll Resellers. The closest NAICS Code Category is Telecommunications Resellers. The Telecommunications Resellers industry comprises establishments engaged in purchasing access and network capacity from owners and operators of telecommunications networks and reselling wired and wireless telecommunications services (except satellite) to businesses and households. Establishments in this industry resell telecommunications; they do not operate transmission facilities and infrastructure. MVNOs are included in this industry. The SBA has developed a small business

size standard for the category of Telecommunications Resellers. Under that size standard, such a business is small if it has 1,500 or fewer employees. 2012 Census Bureau data show that 1,341 firms provided resale services during that year. Of that number, 1,341 operated with fewer than 1,000 employees. Thus, under this category and the associated small business size standard, the majority of these resellers can be considered small entities. According to Commission data, 881 carriers have reported that they are engaged in the provision of toll resale services. Of this total, an estimated 857 have 1,500 or fewer employees. Consequently, the Commission estimates that the majority of toll resellers are small entities.

34. *Prepaid Calling Card Providers.* Neither the Commission nor the SBA has developed a small business definition specifically for prepaid calling card providers. The most appropriate NAICS code-based category for defining prepaid calling card providers is Telecommunications Resellers. This industry comprises establishments engaged in purchasing access and network capacity from owners and operators of telecommunications networks and reselling wired and wireless telecommunications services (except satellite) to businesses and households. Establishments in this industry resell telecommunications; they do not operate transmission facilities and infrastructure. Mobile virtual networks operators (MVNOs) are included in this industry. Under the applicable SBA size standard, such a business is small if it has 1,500 or fewer employees. U.S. Census Bureau data for 2012 show that 1,341 firms provided resale services during that year. Of that number, 1,341 operated with fewer than 1,000 employees. Thus, under this category and the associated small business size standard, the majority of these prepaid calling card providers can be considered small entities. According to Commission data, 193 carriers have reported that they are engaged in the provision of prepaid calling cards. All 193 carriers have 1,500 or fewer employees. Consequently, the Commission estimates that the majority of prepaid calling card providers are small entities that may be affected by these rules.

#### **4. Other Entities**

35. *All Other Telecommunications.* The “All Other Telecommunications” category is comprised of establishments primarily engaged in providing specialized telecommunications services, such as satellite tracking, communications telemetry, and radar station operation. This industry also includes establishments primarily engaged in providing satellite terminal stations and associated facilities connected with one or more terrestrial systems and capable of transmitting telecommunications to, and receiving telecommunications from, satellite systems. Establishments providing Internet services or voice over Internet protocol (VoIP) services via client-supplied telecommunications connections are also included in this industry. The SBA has developed a small business size standard for “All Other Telecommunications”, which consists of all such firms with annual receipts of \$35 million or less. For this category, U.S. Census Bureau data for 2012 show that there were 1,442 firms that operated for the entire year. Of those firms, a total of 1,400 had annual receipts less than \$25 million and 15 firms had annual receipts of \$25 million to \$49, 999,999. Thus, the Commission estimates that the majority of “All Other Telecommunications” firms potentially affected by our action can be considered small.

#### **D. Description of Projected Reporting, Recordkeeping, and Other Compliance Requirements for Small Entities**

36. None.

#### **E. Steps Taken to Minimize the Significant Economic Impact on Small Entities, and Significant Alternatives Considered**

37. The RFA requires an agency to describe any significant alternatives that it has considered in reaching its proposed approach, which may include the following four alternatives (among others): (1) the establishment of differing compliance or reporting requirements or timetables that take into account the resources available to small entities; (2) the clarification, consolidation, or simplification of compliance and reporting requirements under the rules for

such small entities; (3) the use of performance rather than design standards; and (4) an exemption from coverage of the rule, or any part thereof, for such small entities.

38. The *Second Further Notice* invites comment on the proposal to establish an oversight role for the Commission within the STIR/SHAKEN governance system's token revocation process. The *Second Further Notice* proposes specific processes for the appeals process and seeks comment on alternatives to these proposed processes.

**F. Federal Rules that May Duplicate, Overlap, or Conflict with the Proposed Rules**

39. None.

40. *Paperwork Reduction Act*. This document contains proposed new information collection requirements. The Commission, as part of its continuing effort to reduce paperwork burdens, invites the general public and the Office of Management and Budget (OMB) to comment on the information collection requirements contained in this document, as required by the Paperwork Reduction Act of 1995, Public Law 104-13. In addition, pursuant to the Small Business Paperwork Relief Act of 2002, Public Law 107-198, see 44 U.S.C. 3506(c)(4), we seek specific comment on how we might further reduce the information collection burden for small business concerns with fewer than 25 employees.

41. *Contact person*. For further information about this proceeding, please contact Connor Ferraro, FCC Wireline Competition Bureau, Competition Policy Division at (202) 418-1322 or [connor.ferraro@fcc.gov](mailto:connor.ferraro@fcc.gov).

**V. ORDERING CLAUSES**

42. IT IS ORDERED, pursuant to sections 4(i), 4(j), 201, 227(e), 227b, 251(e), and 303(r), of the Act, 47 U.S.C. 154(i), 154(j), 201, 227(e), 227b, 251(e), and 303(r), that that this *Second Further Notice of Proposed Rulemaking* IS ADOPTED.

43. IT IS FURTHER ORDERED that the Commission's Consumer and Governmental Affairs Bureau, Reference Information Center, SHALL SEND a copy of this *Second Further Notice of Proposed Rulemaking*, including the Initial Regulatory Flexibility Analysis, to the Chief Counsel for Advocacy of the Small Business Administration.

**List of Subjects in 47 CFR Part 64**

Carrier equipment, Communications common carriers, Reporting and recordkeeping requirements, Telecommunications, Telephone.

Federal Communications Commission.

**Marlene Dortch,**  
*Secretary.*

## **Proposed Rules**

For the reasons discussed in the preamble, the Federal Communications Commission proposes to amend 47 CFR part 64 as follows:

### **PART 64 – MISCELLANEOUS RULES RELATING TO COMMON CARRIERS**

1. Amend subpart HH by adding § 64.6308 to read as follows:

#### **§ 64.6308 Review of Governance Authority decision to revoke an SPC token.**

(a) *Parties permitted to seek review of Governance Authority decision.* (1) Any intermediate provider or voice service provider aggrieved by a Governance Authority decision to revoke that intermediate provider or voice service provider's Service Provider Code (SPC) token, must seek review from the Governance Authority and complete the appeals process established by the Governance Authority prior to seeking Commission review.

(2) Any intermediate provider or voice service provider aggrieved by an action to revoke its SPC token taken by the Governance Authority, after exhausting the appeals process provided by the Governance Authority, may then seek review from the Commission, as set forth in this section.

(b) *Filing deadlines.* (1) An intermediate provider or voice service provider requesting Commission review of a Governance Authority decision to revoke that intermediate provider or voice service provider's SPC token by the Commission, shall file such a request electronically in the designated Electronic Comment Filing System (ECFS) inbox within sixty days from the date the Governance Authority issues its final decision.

(2) Parties shall adhere to the time periods for filing oppositions and replies set forth in § 1.45.

(c) *Filing requirements.* (1) A request for review of a Governance Authority decision to revoke an intermediate provider or voice service provider's SPC token by the Commission shall be filed electronically in the designated ECFS inbox. The request for review shall be captioned "In the

matter of Request for Review by (name of party seeking review) of Decision of the Governance Authority to Revoke an SPC Token.”

(2) A request for review shall contain:

- (i) A statement setting forth the intermediate provider or voice service provider’s asserted basis for appealing the Governance Authority’s decision to revoke the SPC token;
- (ii) A full statement of relevant, material facts with supporting affidavits and documentation, including any background information the intermediate provider or voice service provider deems useful to the Commission’s review; and
- (iii) The question presented for review, with reference, where appropriate, to any underlying Commission rule or Governance Authority policy.

(3) A copy of a request for review that is submitted to the Commission shall be served on the Governance Authority via *sti-ga@atis.org* or in accordance with any alternative delivery mechanism the Governance Authority may establish in its operating procedures.

(d) *Review by the Wireline Competition Bureau or the Commission.* (1) Requests for review of a Governance Authority decision to revoke an intermediate provider or voice service provider’s SPC token that are submitted to the Commission shall be considered and acted upon by the Wireline Competition Bureau, which shall issue a written decision; provided, however, that requests for review that raise novel questions of fact, law, or policy shall be considered by the full Commission.

(2) An affected party may seek review of a decision issued under delegated authority by the Wireline Competition Bureau pursuant to the rules set forth in § 1.115.

(e) *Standard of review.* (1) The Wireline Competition Bureau shall conduct *de novo* review of Governance Authority decisions to revoke an intermediate provider or voice service provider’s SPC token.

(2) The Commission shall conduct *de novo* review of Governance Authority decisions to revoke an intermediate provider or voice service provider's SPC token that involve novel questions of fact, law, or policy; provided, however, that the Commission shall not conduct *de novo* review of decisions issued by the Wireline Competition Bureau under delegated authority.

(f) *Status during pendency of a request for review and a Governance Authority decision.* (1)

When an intermediate provider or voice service provider has sought timely Commission review of a Governance Authority decision to revoke an intermediate provider or voice service provider's SPC token under this section, the intermediate provider or voice service provider shall not be considered to be in violation of the Commission's call authentication rules under § 64.6301 until and unless the Wireline Competition Bureau or the Commission, pursuant to paragraph (d)(1) of this section, has upheld or otherwise decided not to overturn the Governance Authority's decision.

(2) In accordance with §§ 1.102(b) and 1.106(n), the effective date of any action pursuant to paragraph (d) of this section shall not be stayed absent order by the Wireline Competition Bureau or the Commission.